STATE OF CALIFORNIA CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD LOS ANGELES REGION ORDER NO. 98-013

WASTE DISCHARGE REQUIREMENTS
FOR
HRL, LLC
(File No. 81-047)

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board), finds:

- 1. HRL, LLC (hereinafter Discharger) discharges treated industrial wastewater under Wastes Discharge Requirements (Order No. 90-060) adopted by this Regional Board on May 21, 1990. The Discharger filed a Report of Material Change with this Regional Board on December 3, 1996, and plans to increase the area of landscape irrigation from 6.5 acres to 8.5 acres, with additional acreage landscaped in the future.
- 2. The Discharger operates an electronic research and development laboratory at 3011 Malibu Canyon Road, Malibu, California. Processed industrial wastewater is treated by neutralization, metal precipitation, flotation and settling, followed by filtration to remove organic and inorganic chemicals. Concentrated solutions of waste solvents, acids, and brines are hauled to a legal point of disposal.
- 3. The Discharger proposes to discharge up to 52,000 gallons per day of treated industrial wastewater from the operations of six cooling towers located on buildings 250 and 254, from laboratory operations, and from wet scrubbers.
- 4. Approximately 8.5 acres of the 73 acre facility is currently landscaped. These 8.5 acres are currently irrigated by 1140 sprinklers utilizing 26,000 gallons per day. Of this 26,000 gallons per day, approximately 23,200 gallons per day is treated industrial wastewater, and the balance is potable water. During the summer months, the volume of water needed for landscape irrigation increases to over 40,000 gallons per day. Order No. 90-060 allows up to 25,000 gallons per day of treated industrial wastewater to be utilized for drip or spray irrigation of area landscaping, thus, over 15,000 gallons per day of potable water is used to supplement the treated industrial wastewater. The Discharger has requested to increase the volume of treated industrial wastewater allowed for landscape purposes rather than discharge to the industrial leachfields.
- During periods of extended wet weather, treated industrial wastewater will be used as cooling tower makeup water instead of irrigation water, thus reducing further the demand for potable water, or will be stored in a 300,000 gallons storage tank. Excess treated industrial wastewater may be discharged to the industrial leachfields. The spray irrigation system is separated by a backflow preventer from any connection to the potable water supply system.

Revised January 26, 1998 January 13, 1998 Wastewater discharged from the cooling towers will meet the same discharge requirements as treated industrial wastewater, and thus may be used in the same capacity as treated industrial wastewater.

- 6. Domestic water is supplied to the Discharger by the Los Angeles County Waterworks. An average of 52,000 gallons per day are used for operations. In the summer months water consumption is increased to a maximum of about 93,000 gallons per day.
- 7. Approximately 18,300 gallons per day of domestic wastewaters are generated every day, and disposed of separately to the subsurface. Wastewater generated from buildings 250 and 254 are disposed of to the subsurface via six 6000-gallon septic tanks and six five-foot diameter seepage pits. If the wastewater volume exceeds that of the seepage pits, excess domestic wastewater will be discharged via one of three existing sanitary leachfields.

Domestic wastewaters generated from buildings 251, 761 and 762 are disposed of to the subsurface via a 3,750 gallon septic tank and nine four-foot diameter cesspools. If the wastewater volume exceeds that of the cesspools, excess domestic wastewater will be discharged via one of three existing sanitary leachfields.

- 8. The site is located in an unsewered area of Malibu. To date, no community sewer system has been scheduled for construction in the vicinity of the project.
- 9. The nearest downgradient water wells to the site are approximately 0.5 miles to the east and do not produce water of potable quality. Los Angeles County District Water Works No. 29 supplies water from Metropolitan Water District to the Malibu area.
- 10. The facility is located in Section 31, Township 1S, Range 17W, San Bernardino Base & Meridian. (The facility's approximate latitude is 34°01'10"; its longitude 118°41'50").
- 11. The Regional Board adopted a revised Water Quality Control Plan for the Los Angeles River Basin on June 13, 1994. The Water Quality Control Plan contains beneficial uses and water quality objectives for groundwater within the Malibu Creek Hydrologic Area of the Malibu Hydrologic Unit. The requirements contained in this Order, as they are met, will be in conformance with the goals and objectives of the Water Quality Control Plan.
- 12. The beneficial uses of groundwater in the Malibu Creek Hydrologic Area of the Malibu Hydrologic Unit are municipal and domestic supply, agricultural supply, and potential industrial service supply.
- 13. No public health criteria exists for the use of treated industrial wastewaters in landscape irrigation. The Department of Health Services for Los Angeles County and the State of California expect no health problems as a result of this project since it does not involve the use of treated sewage wastewaters.

14. This project involves an existing facility, and, as such, is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 2100 et seq.) in accordance with Title 14, California Code of Regulations, Chapter 3, Section 15301.

The Regional Board has notified the Discharger and interested agencies and persons of its intent to revise Waste Discharge Requirements for this discharge and has provided them with an opportunity to submit their written views and recommendations.

The Regional Board, in a public meeting, heard and considered all comments pertaining to the discharge and to tentative amended requirements.

IT IS HEREBY ORDERED, that HRL, LLC shall comply with the following:

A. LIMITATION FOR INDUSTRIAL WASTEWATERS

- 1. The use and disposal of wastewaters shall be limited to treated industrial wastewaters only, used for landscape irrigation or disposal to the industrial leachfields as proposed.
- 2. Treated industrial wastewaters shall not exceed the following limits:

Constituent	<u>Units</u>	Maximum Effluent Limitations
Total dissolved Solid	mg/L	2000 -
Sulfate	mg/L	800 /
Chloride	mg/L	500 -
Boron	mg/L	2
Nitrate-N	mg/L	10 -
Arsenic	mg/L	0.05
Cadmium	mg/L	0.01 _
Chromium	mg/L	0.05 _
Mercury	mg/L	0.002 -
Lead	mg/L	0.05 -
Selenium	mg/L	0.01 _
Silver	mg/L	0.05 ~
Zinc	mg/L	5.
Fluoride	mg/L	3 -
Total phenol	mg/ L	0.005 -
Priority Pollutants	mg/L	non-detectable
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^{3.} The pH of treated wastewaters shall at all times be within the range of 6.0 to 9.0.

B. GENERAL REQUIREMENTS FOR INDUSTRIAL WASTEWATERS

- 1. Wastewaters shall be discharged only on property owned or controlled by the discharger.
- 2. The effluent discharged shall not contain heavy metals, arsenic, or cyanide in concentrations exceeding the limits contained in the current California Drinking Water Standards.
- 3. Wastewaters discharged shall be retained on the areas of use and shall not be allowed to escape as surface flow except as provided for in a National Pollutant Discharge Elimination System Permit (NPDES).
- 4. The wastewater disposal system shall be maintained in such a manner that at no time will wastewaters be permitted to surface or overflow at any location, including coastal areas.
- 5. Treated wastewaters shall not be used for irrigation during periods of rainfall and/or runoff.
- 6. The use of treated industrial wastewaters for landscape irrigation shall not cause pollution or nuisance.
- 7. The disposal of any radioactive materials is prohibited.
- 8. The discharger shall comply with all Rules and Regulations of the Los Angeles County Department of Public Works and the Los Angeles County Department of Health Services.

C. EFFLUENT LIMITATIONS FOR DOMESTIC WASTEWATERS

- Wastes discharged shall be limited to treated domestic wastes only. No industrial or commercial wastewaters shall be discharged at this location.
- 2. The discharge of raw or inadequately treated sewage at any time is prohibited.
- 3. Radioactivity of the wastes discharged shall not exceed the limits specified in Title 22, California Code of Regulations, Chapter 15, Article 5, Sections 64441 and 64443, or subsequent revisions.
- 4. Any wastes that do not meet the foregoing requirements shall be held in impervious containers, transferred elsewhere, and the final discharge shall be at a legal point of disposal.

D. GENERAL REQUIREMENTS FOR DOMESTIC WASTEWATERS

- 1. There shall be no discharge of wastes to surface water or watercourses at any time.
- 2. The effluent discharged shall not contain heavy metals, arsenic, or cyanide in concentrations exceeding the limits contained in the current California Drinking Water Standards.
- In no case may the septic tanks, seepage pits and leachfield disposal systems extend to within 10 feet of the zone of historic or anticipated high groundwater. The Discharger must submit certification that the septic tanks, seepage pits and leachfield disposal systems meet this requirement.
- 4. No part of the septic tanks, seepage pits, and leachfield disposal systems shall be closer than 150 feet to any water well, or closer than 100 feet to any stream, channel or other watercourse.
- 5. Adequate facilities shall be provided to divert storm waters away from the septic tanks, seepage pits, and leachfield disposal systems, and from areas where any potential pollutants are stored.
- 6. The septic tanks, seepage pits, and leachfield disposal systems shall be protected from damage by storm flows, or runoff.
- 7. Wastes discharged shall at no time contain, any substance in concentrations toxic to human, animal, plant, or aquatic life.
- 8. The septic tanks, seepage pits, and leachfield disposal systems shall be maintained in such a manner that at no time will sewage be permitted to surface or overflow at any location.
- 9. Odors of sewage origin shall not be perceivable beyond the limits of the property owned or controlled by the Discharger.
- 10. Neither the treatment nor the discharge of waste shall create a condition of pollution, contamination, or nuisance, or problems due to breeding of mosquitos, midges, flies, or other pests.
- 11. Wastes shall not be disposed of in geologically unstable areas or so as to cause earth movement.

HRL, LLC Order No. <u>98-013</u>

- 12. Wastes discharged shall not impart tastes, odors, color, foaming or other objectionable characteristics to receiving groundwater.
- 13. There shall be no onsite disposal of sludge. Any offsite disposal of sewage or sludge shall be made only to a legal point of disposal, and in accordance with provisions of Division 7.5 of the California Water Code.

E. PROVISIONS

- 1. A copy of these Waste Discharge Requirements shall be maintained at the facility so as to be available at all times to operating personnel.
- The Discharger shall file with the Regional Board technical reports on self-monitoring work performed according to the detailed specifications contained in the Monitoring and Reporting Program, as directed by the Executive Officer. The results of any monitoring done more frequently than required at the location and/or times specified in the Monitoring and Reporting Program shall be reported to the Regional Board.
- 3. The Discharger shall notify this Regional Board within 24 hours of any adverse conditions as a result of the discharge of wastewater from this facility; written confirmation shall follow within 7 days. This information shall be confirmed in the next monitoring report. In addition, the report shall also include the reasons for the violations or adverse conditions, the steps being taken to correct the problem (including dates thereof), and the steps being taken to prevent a recurrence.
- 4. The Discharger shall comply with all rules and regulations of the Los Angeles County Department of Health Services for construction, operation, maintenance, expansion, and abandonment of subsurface sewage disposal systems.
- 5. This Order does not alleviate the responsibility of the Discharger to obtain other necessary local, state, and federal permits to construct facilities necessary for compliance with this Order; nor does this Order prevent imposition of additional standards, requirements, or conditions by any other regulatory agency.
- 6. Prior to any necessary repair to the septic tanks and/or leachfield disposal system, an engineer's analysis is required as to the completeness and determination of the effectiveness of the proposed repair work.
- 7. The Discharger shall file a written report with this Regional Board within 90 days after the average dry-weather waste-flow for any month equals or exceeds 90 percent of the design capacity of the septic tanks and leachfield disposal system. The report shall detail provisions to cope with the flows in excess of that figure.

- 8. Any discharge of wastewater at any point(s) other than specifically described in this Order is prohibited, and constitutes a violation of the Order.
- 9. After notice and opportunity for a hearing, this Order may be terminated or modified for cause, including, but not limited to:
 - (a) Violation of any term or condition contained in this Order;
 - (b) Obtaining this Order by misrepresentation, or failure to disclose all relevant facts:
 - (c) A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- 10. The Discharger shall furnish, within a reasonable time, any information the Regional Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order. The Discharger shall also furnish to the Regional Board, upon request, copies of records required to be kept by this Order.
- 11. In accordance with Section 13263 of the Water Code, these waste discharge requirements are subject to periodic review and revision by this Regional Board.
- 12. This Order includes "Standard Provisions Applicable to Waste Discharge Requirements". If there is any conflict between provisions stated herein and the "Standard Provisions", those provisions stated herein will prevail.

I, Dennis A. Dickerson, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Regional Board, on January 26, 1998.

DENNIS A. DICKERSON

Executive Officer

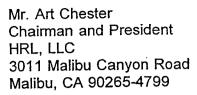
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Los Angeles Regional Water **Ouality Control** Board

101 Centre Plaza Drive Monterey Park, CA 91754-2156 (213) 266-7500 FAX (213) 266-7600

February 2, 1998





Governor

WASTE DISCHARGE REQUIREMENTS-HRL, LLC, 3011 MALIBU CANYON ROAD, MALIBU (FILE NO. 81-047)

Our letter of December 26, 1997, transmitted tentative Waste Discharge, Requirements for your waste discharge.

Pursuant to Division 7 of the California Water Code, this Regional Board at a public meeting held on January 26, 1998, reviewed the tentative requirements, considered all factors in the case, and adopted Order No. 98-013 (copy attached) relative to this discharge.

Project	File No.	Order No.	Monitoring & Reporting Program No.
HRL, LLC	81-047	98-013	. 6939

You are required to implement Monitoring and Reporting Program No. CI-6939 on the Your first monitoring report under these effective date of Order No. 98-013. Requirements is due to this Regional Board by April 30, 1998. All monitoring reports should be sent to the Regional Board, Attn: Data and Information Management Unit.

Please reference all monitoring reports to our Compliance File No. CI-6939. We would appreciate if you would not combine other reports, such as progress or technical reports, with your monitoring reports.

If you have any questions or comments, please call Ahmad Lamaa at (213) 266-7560.

RODNEY H. NELSON, Chief Groundwater Regulatory Unit

Rodney H. Mllson

Attachments

Mr. Art Chester Page 2

cc: John Youngerman, Division of Water Quality, State Water Resources Control
Board

Jorge Leon, Office of Chief Counsel, State Water Resources Control Board

Department of Water Resources, Southern District

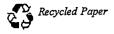
Department of Fish and Game, Region 5
South Coast Air Quality Management District

Gary Yamamoto, State Department of Health Services, Drinking Water Field Operations Branch

Jack Petralia, Department of Environmental Health, County of Los Angeles

Los Angeles County, Department of Regional Planning

Los Angeles County Department of Public Works. Brent A. Thorell, Hughes Research Laboratories



STATE OF CALIFORNIA CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, LOS ANGELES REGION

MONITORING AND REPORTING PROGRAM NO. <u>CI 6939</u> FOR

HRL, LLC (Order No. 98-013) (FILE NO. 81-47)

HRL, LLC (hereinafter Discharger) shall implement this monitoring program within 60 days of the effective date of this Order.

Monitoring Reports shall be submitted by the dates in the following schedule:

I. Reporting

Reporting Period	Report Due	
January - March	April 30	
April - June	July 30	
July - September	October 30	
October - December	January 30	

The first monitoring report under this program shall be submitted by April 30, 1998.

By January 30th of each year, beginning in 1999, the Discharger shall submit an annual report to the Board. The report shall contain summaries of the monitoring data obtained during the previous year. In addition, the Discharger shall discuss the compliance record and the corrective actions taken or planned which may be needed to bring the discharge into full compliance with the Waste Discharge Requirements. The Annual analysis shall be performed during the October-December reporting period

Industrial Wastewater Monitoring

A plan shall be submitted within 30 days of adoption of this permit showing the location of sampling stations on the irrigation water line and cooling tower(s) blowdown line where representative treated wastewater samples can be obtained prior to mixing with city waters or other wastewaters. Each sampling station shall be clearly identified and flow metered. The following shall constitute the treated industrial wastewater monitoring program for each sampling station:

HRL, LLC Monitoring and Reporting No. CI 6939

Constituent	<u>Units</u>	Type of Sample	Minimum Frequency of Analysis
Total Flow	gal/day		monthly
рН	pH units	grab	monthly
Total dissolved			
solids	mg/L	grab	quarterly
Chloride	mg/L	grab	quarterly
Sulfate	mg/L	grab	quarterly
Nitrate-N	mg/L	grab	quarterly
Fluoride	mg/L	grab	quarterly
Aluminum	mg/L	grab	quarterly
Arsenic	mg/L	grab	quarterly
Barium	mg/L	grab	quarterly
Cadmium	mg/L	grab	quarterly
Chromium	mg/L	grab	quarterly
Copper	mg/L	grab	quarterly
Lead	mg/L	grab	quarterly
Mercury	mg/L	grab	quarterly
Nickel	mg/L	grab	quarterly
Selenium	mg/L	grab	quarterly
Silver	mg/L	grab	quarterly
Zinc	mg/L	grab	quarterly
Cyanide	mg/L	grab	quarterly
Total Phenol	mg/L	grab	quarterly
Priority Pollutants ¹	mg/L	grab	annually

Priority pollutants are listed on page T-5. The Discharger shall obtain representative samples from the industrial treated wastewater used for irrigation and from the cooling tower blowdown wastewaters. The discharger shall identify the source of each priority pollutant detected, if found in sampling. The annual analyses shall be reported in the July - September reporting period.

Domestic Wastewater

The quarterly reports shall contain the following information:

- a. Average and maximum daily waste flow for each month of the quarter.
- b. Estimated population served during each month of the reporting period.
- c. A statement relative to compliance with discharge specifications during the reporting period.
- d. Results of at least weekly observations in the disposal area for any overflow or surfacing of wastes, other visible effects of the waste discharge, and odor effects.

File No. 81-47

II. WASTE HAULING REPORTING

In the event wastes are hauled to a different disposal site, the name and address of the hauler of the wastes shall be reported, along with types and quantities hauled during the reporting period and location of the final point of disposal. The class of wastes shall be identified. If no wastes are hauled during the reporting period a statement to that effect shall be submitted.

III. GENERAL PROVISIONS FOR SAMPLING AND ANALYSIS

All sampling, sample preservation, and analyses shall be performed in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants", promulgated by the United States Environmental Protection Agency.

All chemical, bacteriological, and bioassay analyses shall be conducted at a laboratory certified for such analyses by the appropriate State agency or approved by the Executive Officer.

IV. GENERAL PROVISIONS FOR REPORTING

For every item where the requirements are not met, the discharger shall submit a statement of the actions undertaken or proposed which will bring the discharge into full compliance with requirements at the earliest time and submit a timetable for correction.

The discharger shall maintain all sampling and analytical results, including strip charts; date, exact place, and time of sampling; dates analyses were performed; analyst's name; analytical techniques used; and results of all analyses. Such records shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Board.

In reporting the monitoring data, the discharger shall arrange the data in tabular form so that the date, the constituents, and the concentrations are readily discernible. The data shall be summarized to demonstrate compliance with waste discharge requirements and, where applicable, shall include results of receiving water observations.

Each quarterly report shall include a statement that all treated waste water was used only as specified in the requirements during the quarter.

If no treated wastewater is used during the quarter, the report shall so state.

HRL, LLC Monitoring and Reporting No. CI 6939

Monitoring reports shall be signed by:

- a. In the case of corporation, by a principal executive office at least of the level of vice-president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which discharge originates;
- b. In the case of a partnership, by a general partner;
- c. In the case of a sole proprietorship, by the proprietor;
- d. In the case of municipal, state or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

Each report shall contain the following completed declaration:

"I declare under penalty of perjury that the foregoing is true and correct.

Executed on the _____ day of _____ at ______.

(Signature)

_____ (Title)"

V. Operation and Maintenance Report

The Discharger shall file a technical report with this Board, not later than 30 days after receipt of these Waste Discharge Requirements, relative to the operation and maintenance program for this facility. The information to be contained in the report shall include, at a minimum, the following:

- a. The name and address of the person or company responsible for operation and maintenance of the facility.
- b. Type of maintenance (preventive or corrective).
- c. Frequency of maintenance, if preventive.

These records and reports are public documents and shall be made available for inspection during normal business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region.

Ordered by

DENNIS A. DICKERSON

Executive Officer

Date: January 26, 1998

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PRIORITY POLLUTANTS

Metals

Antimony
Arsenic
Beryllium
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

Miscellaneous

Cyanide Asbestos (only if specifically required)

Pesticides & PCBs

Aldrin Chlordane Dieldrin 4,4'-DDT 4,4'-DDE 4,4'-DDD

Alpha-endosulfan Beta-endosulfan Endosulfan sulfate

Endrin

Endrin aldehyde Heptachlor

Heptachlor epoxide

Heptachior epo Alpha-BHC Beta-BHC Gamma-BHC Delta-BHC Toxaphene PCB 1016 PCB 1221 PCB 1232

PCB 1242 PCB 1248

PCB 1254

PCB 1260

Base/Neutral Extractibles Acid Extractibles

Acenaphthene
Benzidine
1,2,4-Trichlorobenzene
Hexachlorobenzene
Hexachloroethane
Bis(2-chloroethyl) ether
2-Chloronaphthalene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
3,3'-Dichlorobenzidine
2,4-Dinitrotoluene
1,2-Diphenylhydrazine

Fluoranthene

4-Chlorophenyl phenyl ether 4-Bromophenyl phenyl ether Bis(2-chloroisopropyl) ether Bis(2-chloroethoxy) methane

Hexachlorobutadiene Hexachlorocyclopentadiene

Isophorone Naphthalene Nitrobenzene

N-nitrosodimethylamine
N-nitrosodi-n-propylamine
N-nitrosodi-n-propylamine
N-nitrosodiphenylamine
Bis (2-ethylhexyl) phthalate
Butyl benzyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Diethyl phthalate
Dimethyl phthalate
Benzo(a) anthracene
Benzo(b) fluoranthene
Benzo(k) fluoranthene

Chrysene
Acenaphthylene
Anthracene

1,12-Benzoperylene

Fluorene Phenanthrene

1,2,5,6-Dibenzanthracene Indeno (1,2,3-cd) pyrene

Pyrene TCDD 2,4,6-Trichlorophenol
P-Chloro-m-cresol
2-Chlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2-Nitrophenol
4-Nitrophenol
2,4-Dinitrophenol
4,6-Dinitro-o-cresol
Pentachlorophenol

Volatile Organics

Phenol

Acrolein
Acrylonitrile
Benzene
Carbon tetrachloride
Chlorobenzene
1,2-Dichloroethane
1,1-Trichloroethane
1,1-Dichloroethane
1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
Chloroethane

Chloroform
1,1-Dichloroethylene
1,2-Trans-dichloroethylene
1,2-Dichloropropane
1,2-Dichloropropylene
Ethylbenzene
Methylene chloride
Methyl chloride
Methyl bromide

Bromoform Bromodichloromethane Dibromochloromethane Tetrachloroethylene

Toluene

Trichloroethylene Vinyl chloride

2-Chloroethyl vinyl ether

vbc 10/95